

The Theory of Resonance Scattering of Particles,  
by A. Akhiezer, and I. Pomeranchuk.

RUSSIAN, per, Zhur Eksper i Teoret Fiz, Vol 18,  
No 7, 1948, pp 603-613.

SEE Upton, New York State: Brookhaven National  
Laboratory.

Guide to Russian scientific periodical  
literature, Vol 1, No 6, Oct 1948, pp 6-12.

Sci Museum Lib No 50/3258 - London

17-1136

A-65

Determination of the Nonelectromagnetic Interaction Between Electrons and Neutrons, by A. Akhiezer, I. Ya. Pomeranchuk, 3 pp.

RUSSIAN, per, Zhur Eksper i Teoret, Vol 19, 1949, pp 558-559.

Sci Museum Lib No 51/2729

Scientific - Physics *AEC-1301*

*A-66*

On the refraction of neutrons, by A. Akhiezer,  
I. Pomeranchuk, 7 pp.

<sup>5</sup>  
RUSSIAN, per, Ehur Eksper i Teoret Fiz, Vol 18, No 5,  
1948, pp 475-478.

*Sci Museum Lib No 51/2057 R* London

See Also Brookhaven Nat Lab, Guide to Russian Sci  
Per Literature Vol 1, No 6, Oct 1948, pp 1-5.

*Sci Museum Lib No 51/2057 R*

*AT 134*

*A-67*

Elementary Waves in Magneto - Hydrodynamics,  
by Akhiezer, A. I., et al, 10 pp.

RUSSIAN, per, Zhur, Tekh Fiz, Vol XXIX, No 8,  
1959, pp 934-938.

ACSI E-6386

Sci - Phys

12 Sep 61

166, 719

Ukrainian papers on Magnetohydrodynamics. by  
Mikhalev, G. V. Lyubarskiy, R. V. Koldanov  
RUSSIAN, per. Ukr Fiz Zhur, Vol. XIX, No 4, 1950  
pp 423-425.

MDF A-139

10-12534

Sci - Electron  
Sep 59  
Vol 9, No 1

97, 758

(DC-4383)  
6

Interaction of Charged Particle Beams ~~WITH~~ With  
Low-Frequency Plasma Oscillations, by A. I.  
Aldiyezher, A. B. Kitsenko, K. N. Stepanov, 11 pp.

RUSSIAN, per, Zhur Eksper i Teoret Fiz,  
Vol XI, No 6, 1961, pp 1866-1870.

JPRS 11609

Sci - Phys  
Jan 62

179,250

On the Question of the Ferromagnetic Resonance Line  
Width, by A. I. Akhlyezov, V. G. Bar'yakhtar, M. I.  
Kaganov, 4 pp.

RUSSIAN, per, Fiz Met i Metall, Vol VI, No 5, 1958,  
pp 932-934.

SLA 59-14738

Sci  
Nov 59  
Vol 2, No 3

101,528



High-Frequency Oscillations in Electron Plasma, by  
A. I. Akhiezer, I. B. Feinberg.

RUSSIAN, per, Zhur Eksper i Teoret Fiz, Vol XXI,  
No 11, 1951, pp 1262-1269.

AEC Tr 1512

USSR

Scientific - Physics, oscillations

Brookhaven Nat Lab 24 Mar 1953

#61 A 70



(FDD 21298)

Slow Electromagnetic Waves, by A. I. Akhiezer,  
Ya. B. Faynberg, 30 pp.

RUSSIAN, no n per, Uspekhi Fiz Nauk, Vol XLIV,  
No 3, Moscow/Leningrad, Jul 1951, pp 331-339,  
355-360, 360-369.

CIA/FDD/U-6189

18,371

USSR

Sci - Geophysics, electromagnetic waves

Table of Contents and Introduction of  
'Quantum Electrodynamics' by A. I. Akiyuzer,  
V. B. Berestetskiy, 22 pp.

RUSSIAN, bk, Kvantovaya Elektrodinamika,  
publ by State Publishing House of Technical-  
Theoretical Literature, Moscow, 1953.

CIA/FDD/X-1822

Scientific - Physics  
dex only

26, 811

Full translation - OTS - 428 pp.  
#264

Quantum Electrodynamics, by A. I. ~~Akhizer~~,  
V. G. Berestetskiy, 549 pp.

RUSSIAN, bk, Kvantovaya Elektrodinamika, Moscow,  
1953.

Sci - Physics  
Aug 57

AEC Tr 2876

SLA R-1066  
51,829

On the Theory of the Thermal Conductivity and  
Absorption of Sound in Ferromagnetic Dielectrics, by A. I.  
Akhiezer, L. A. Shishkin, 4 pp.

RUSSIAN, per, Zhur Eksper i Teoret Fiz, Vol XXXIV,  
No 5, 1958, pp 1267-1271.

Amer Inst of Phys  
Sov Phys - JETP  
Vol VII (34), No 5

Sci - Phys  
Dec 58

77,533

Akhiezer, A. I., Lyubarskiy, G. Ya., and  
Polovin, R. V.  
SIMPLE WAVES IN MAGNETIC HYDRODYNAMICS  
[Prostyye Volny v Magnitnoy Gidrodinamika] tr. by  
R. A. Makofski. 13 July 60, 8p. 7 refs. TG 230-T186.  
60-21932  
Order from OTS \$0.50

Trans. of Zhurnal Tekhnicheskoy Fiziki (USSR) 1959,  
v. 29, no. 8 [p. 933-938].  
Another translation is available from OTS \$0.50 as  
60-21803, [1960] 10p.

The connection between simple and ordinary plane  
waves is examined. All simple waves are found in  
magnetohydrodynamics. It is shown that in the absence  
of shock waves a region of steady flow can be bounded  
only with a simple wave, both in magnetic as well as in  
ordinary hydrodynamics. (Author) (See also 59-14540).

(Physics--Theoretical, TT, v. 5, no. 2)

60-21932

1. Magneto-hydrodynamic waves--Mathematical analysis
- I. Akhiezer, A. I.
- II. Lyubarskiy, G. Ya.
- III. Polovin, R. V.
- IV. APL/JHU TG-230-T186
- V. Applied Physics Lab., Johns Hopkins U., Silver Spring, Md.
- VI. Contract NOrd-7386

Office of Technical Services

Radiative Corrections to Scattering of Electrons by  
Electrons, by A. Akhiezer, R. Polovin, 3 pp.

RUSSIAN, Article-no per, Dok Ak Nauk SSSR, Vol XC, No 1,  
1953, pp 53-57.

NSF Tr 47

*BSIR LLU 11.888 (lease)*

Scientific - Physics

Sep 53 CTS

*5214*

Magnetization Time of a Weak Solution of  $\text{He}^3$  in  $\text{He}^4$ ,  
by A. Akhiezer, V. Aleksin

RUSSIAN, thrice-no per, Dok Ak Nauk SSSR, Vol XCII,  
No 2, 1953, p 259-262. *CIA 9007313,*

NSF Tr 183

Scientific - Physics  
CTS/DEX

9399

Theory of Wave Motion of an Electron Plasma,  
by A. I. Akhiezer, R. V. Polovin, 10 pp.

RUSSIAN, no per, Zhur Eksper i Teoret Fiz, Vol XXX,  
No 5, 1956, pp 915-928.

Amer Inst of Physics  
Soviet Physics, JETP  
Vol III, No 5

Sci - Physics  
Apr 57 CTS

46,579

On the Problem of Electromagnetic Wave Diffraction  
by a Circular Aperture in a Plane Screen, by  
N. I. Akhizher, A. N. Akhizher, 7 pp.

*thru come*  
RUSSIAN, per, Doklady Akad Nauk SSSR, Vol CIX,  
No 1, 1956, pp 53-56.

S.L.A. Tr R-429

48,725

Sci - Electricity  
May 57

Ultrasonic Absorption in Metals, by A. I. Akhuzer,  
M. I. Kagzov, G. Ye. Lyubarskiy, 3 pp. ^

RUSSIAN, no per, Zhur Eksper i Teoret Fiz, Vol XXXII,  
No 24, ~~Mar~~ 1957, pp 837-841.

Amer. Inst of Phys  
Sov Phys-JETP  
Vol V, No 4

58,186

Sci - Physics  
Jan 58

Diffraction Scattering of Fast Deuterons by Nuclei,  
by A. I. Akhizer, A. G. Sitenko, 9 pp.

<sup>A</sup>  
RUSSIAN, no per, Zhur Eksper i Teoret Fiz, Vol XXXII,  
No 24, Nov. 1957, pp 794-805.

/

Amer Inst of Phys  
Sov Phys-JETP  
Vol V. No 4

58, 181

Sci - Physics  
Jan 58

Slow Electromagnetic Waves, by A. I. Akhiezer,  
Y. B. Faynberg, 30 pp.

RUSSIAN, per, Uspekhi Fiz Nauk, Vol XLIV, No 3,  
Jul 1951, pp 331-339.

S.L.A. Tr R-517

Sci - Electricity  
May 57

48,726

Influence of Radiation Effects on the Relaxation of  
Electrons of Plasma in a Strong Magnetic Field,  
by A. I. Akhiezer, V. F. Aleksin, et al.  
RUSSIAN, rpt, Fizika Plazmy i Problemy Upravlyayemogo  
Termoyadernog Sintaza, Doklady Vtoroy Konferentsii  
Po, Khar'kov 14-19 Noyabrya 1960, Kiev, No 2, 1963,  
pp 15-28.

•FTD-TT-65-150

(Possibly)

Sci - NS

Feb 65

p 33

Total Oscillations in Plasma, by A. I  
Akhiezer, et al, 157 pp.  
RUSSIAN, bk, Kollektivnyye Kolebaniya v  
Plazme, 1960, pp. 1-164.  
JPRS 30353

82

A. I. Akhiezer

USSR  
Sci-Phys.  
Jul 60

232,136

About High-Frequency Oscillations of Electronic Plasma, by A. I. Akhiezer, Ya. B. Faynberg. 102

13 pp.

RUSSIAN, per, Zhurnal Eksperimental'noy i Teoreticheskoy Fiziki, Vol 21, No 11, 1951,

pp 1262-1269. P100200767

FTU-HT-66-494

*A. I. Akhiezer*

Sci/Electronics

Aug 67

511,403

On the Nonlinear Theory of Electron Plasma Oscillations, by A. I. Akhiezer, G. Ya. Lyubarskiy.

Full translation.

RUSSIAN, per, Dok Ak Nauk SSSR, Vol LXXX, No 2, USSR, 1951, pp 193-195.

*APPROVED*  
AEC Tr 1466

Scientific - Electronics, plasma oscillations

Jan 53 CTS/DEX

*CSA R-1443 9097095*

*A-68*

On Some Coupled (Jual) Integral Equations.  
by ~~XXXXXXXXXXXX~~ A. I. Akhiezer, 6 pp.

RUSSIAN, thrice-no per, Dok Ak Nauk SSSR,  
Vol XXVIII, 1954, p 333-336. 9092535

CIA 9014184  
9092535

Morris D. Friedman  
\$3.00    A-103

Scientific - Physics

CTB 67/Apr 55

• 22,948

Theory of Excitation of Hydromagnetic Waves, by  
A. I. Akhiezer, A. G. Sitenko, : 3 12.

RUSSIAN, per, Zhur Eksp 1 Teoret Fiz, Vol XXIV,  
No 1(7), 1958, pp 116-120

Amer Inst of Phys  
Sov Phys-JETP  
Vol VIII(35), No 1

Sci - Phys

82,145

Feb 59

On the Inclusion of the Effect of the Thickness  
of the Screen in Certain Diffraction Problems, by  
A. I. Akhizer, 6 pp.

RUSSIAN, per, Zhur Tekh Fiz, Vol XXVII, No 6, 1957,  
pp 1294-1300.

Amer Inst of Phys  
Sov Phys-Tech Phys  
Vol II, No 6

Sci - Phys

May 58

62,741

The Diffractive Scattering of Fast Deut<sup>e</sup>rons, by A. I. Akhiezer, A. G. Sitenko, 4 pp.

*twice - mi*  
RUSSIAN, *per*, Dok Ak Nauk SSSR, ~~Phys-Soc~~, Vol CVII,  
No 3, pp 385-

Amer Inst of Phys  
Sov Phys "Doklady"  
Vol I, No 2

Sci - Phys

51,650

Aug 57

The Theory of Particles and Wave Interaction With  
Nonuniformity Plasma, by L. A. ARMAN, U. L. BIRBA,  
15 pp.  
RICHMOND, VIR. TECH REPORT 1 TERRY PLO, Vol XLVI.  
No 4, 1964, pp 1301-1304. 920074  
AEC-6000-11-101

P36

Sci-Plys  
Jan 65

272,082



Theory of the Interaction of a Charged Part<sup>ic</sup>le with  
a Plasma in a Magnetic Field, by, I. A. Akhiezer,  
~~pp. 954-962~~ 6 pp.

RUSSIAN, per, Zhur Ekaper i Teoret Fiz, Vol XL,  
No 3, 1961, pp. 954-962.

165,618<sup>9</sup>  
AIP  
Sov Phys - JETP  
Vol XIII, No 3

Sci

Sept 61

On the Coexistence of Superconductivity and  
Ferromagnetism  
By A. I. Akhiezer and I. A. Akhiezer pp 6

RUSSIAN, per, Zhur Eksper i Teoret Fiz, Vol XLIII,  
No 6, 1962, pp 2208-2216

Amer Inst of Phys  
Sov Phys - JETP  
Vol XVI, No 6

Sci

340, 626

Jul 63

109  
Fluctuations and Scattering of Slow Neutrons  
and Electromagnetic Waves in Paramagnets in  
a Strong Magnetic Field, by I. A. Akhiezer.  
12 pp.  
UKRAINIAN, per, Ukr Fiz Zh, Vol 14, No 2,  
pp 216-226.  
NASA TT F-12,396

*I. A. Akhiezer*

Sci-Phys  
Nov 69

395,806

Some Questions in the Theory of Moments, by  
N. Akhiezer, M. Krein.

RUSSIAN, monograph O Nekotorykh Voprosakh Teorii  
Momentov, Kharkov, 1938, 255 pp.

\*Amer Math Soc  
190 Hope Street  
Providence 6, R. I.

Sci

15 May 62

OTS, Vol 7, No 5

On the Problem of Electromagnetic Wave Diffraction  
by a Circular Aperture in a Plane Screen, by  
N. I. Akhiezer, A. N. Akhiezer, 7 pp.

RUSSIAN, per, Doklady Akad Nauk SSSR, Vol. CIX,  
No 1, 1956, pp 53-56.

S.L.A. Tr R-429

Sci - Electricity  
May 57

48,725

The Classical Problem of Moments and Certain Problems  
of Analysis Connected With it, by N. I. Ahlfors.

RUSSIAN, bk.

~~\*Amer Math Soc~~

Jul 62

*some other commercial  
firm is doing this*

Lectures on the Calculus of Variations, by  
N. I. Akhiezer.

RUSSIAN, mono, Lektsiy po Variatsionnomu  
Ischisleniyu, Moscow, 1955, 248 pp.

Available from Blaisdell Publishing Co.  
a Division of Random House Inc. during  
1961.

15 Jun 62  
Sci -

Akhiezer, Naum Il'ich and Glazman, I. M.  
THEORY OF LINEAR OPERATORS IN HILBERT  
SPACE, VOL. 2, tr. by Merlynd Nestell. 1963, 218p.  
Order from Frederick Ungar Publishing Co., 131 E.  
23d St., New York 10, N. Y. \$7.50

Trans. of mono. [Teoriya Lineinykh Operatorov v  
Gil'bertovom Prostranstve, Moscow/Leningrad, 1960]  
chap. 6 to appendix 2.

DESCRIPTORS: \*Operators (Mathematics), Functional  
analysis

(Mathematics, TT, v. 9, no. 12)

63-17245

I. Title: Hilbert space  
I. Akhiezer, N. I.  
II. Glazman, I. M.  
III. Ungar, Frederick,  
Publishing Co.,  
New York

340:62

NLE (2000)

Office of Technical Services

Akhiezer, Nauk Il'ich, and Krein, M.  
SOME QUESTIONS IN THE THEORY OF MOMENTS,  
tr. by W. Fleming, 1962, 265p.  
Order from American Mathematical Society, 190 Hope  
St., Providence, 6, R. I. \$6.10

Trans. of mono. [O Nekotorykh Voprosakh Teorii  
Momentov, Kharkov, 1938, 255p.].

DESCRIPTORS: \*Functional analysis.

(Mathematics, TT, v. 9, no. 12)

63-17256

1. Title: Moment spaces
  2. Title: Theory of moments
- I. Akhiezer, N. I.  
II. American Mathematical \*  
Society, Providence, R. I.

...4127:

Office of Technical Services

Concerning Precision Methods in Linguistic  
Research, by O. S. Akhmanova.

RUSSIAN, bk, 1961, 164 pp.

RAND corp RM-2997-PR

Sci-Misc, Philology  
Jan 63

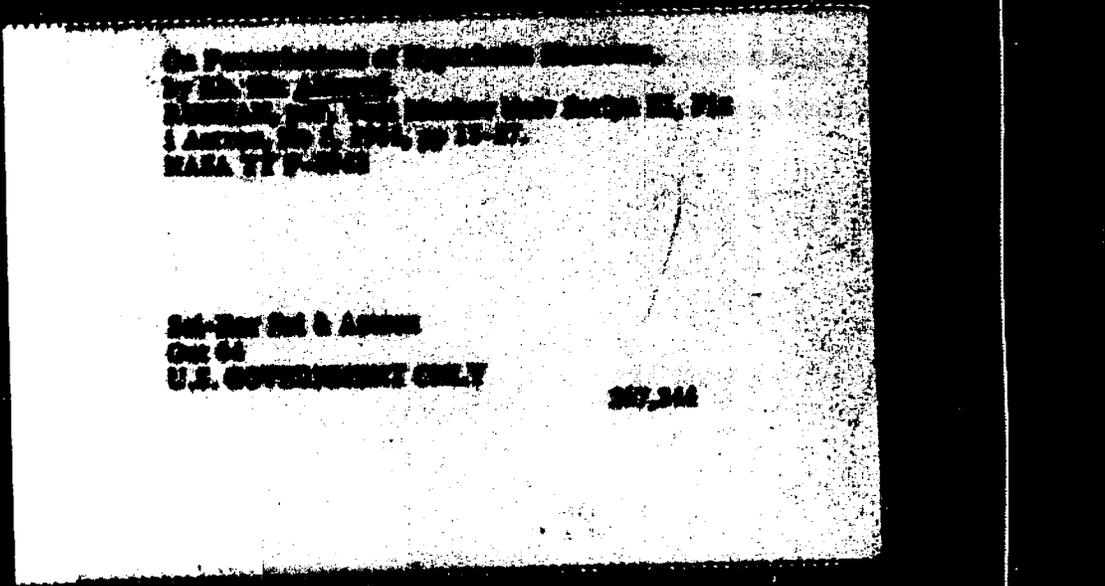
2 19 478

**Abstracts of Our Times - Communications and Problems of Development**  
by **H. V. AMBROSIANO, R. L. HENNINGSEN, JR.**  
**TRANSLATED BY: Charles H. HARRIS, Ph.D., Ph.D., Ph.D. & Ph.D.**  
**Knowledge, Language, & The 1960s, pp 1-142.**  
**(Title of Contents)**

**JPRS 2010**

**Sci-Misc**  
**Feb 64**

**200, 000**



Analysis of Documents in Possession of  
Soviet Spies in U.S.      [unclear]  
SECRET, FOR THE EYES OF THE DIRECTOR  
OF CIA, ONLY      [unclear]  
NO 1, 1954, pp. 12-17.  
NASA TT F-001

Sci-Tech  
Feb 65  
U.S. GOVERNMENT ONLY

274,300

Distortion of Unmodulated Electromagnetic Waves  
in Nonlinear Dispersing Media. Generation of  
Optical Harmonics, by B. A. Akhmanov and R. V.  
Khokhlov, 45 pp.  
RUSSIAN, in, Problemy Nelineynoy Optiki  
(Elektronnoy Optiki y Nelineynoy Disper-  
sivuyushchikh Sredakh, 1962-63, pp. 145-196.  
JPRS 36231

128

B.A. Akhmanov.

USSR  
Sci-Phys  
Mar 66

295,983

Modernization of Lead Production Equipment  
and Growth in Labor Productivity, by K. T. Akhmetov,  
P. A. Donchenko, 7 pp.

RUSSIAN, per, Sovet Metal, Vol IV, No 7,  
1963, pp 11-18.

Primary Sources

Sci  
Jan 65

270,384

R-900

(NY-3000/2)-

Some Problems in the Development of the Chemical  
Industry of Kazakhstan, by K. T. Akhmetov, 10 pp.

RUSSIAN, par, Khim Prom, No 1, 1959, pp 24-28.

JPRS-1839-W

USSR

Econ - Technological - Industry

Aug 59

94,654

Electrode Potentials of Zinc Monocrystals in Aqueous  
Solutions, by N. S. Akhmetov, G. S. Vozdvizhensky,  
6 pp.

RUSSIAN, per, Zhur Prikl Khim, Vol XXIX, No 8,  
Aug 1956, pp 1196-1202.

Consultants Bureau

Sci - Chem  
Jul 57

49,766

(FDD 23036)

Protection of State Secrets - The Duty of Soviet  
Citizens, by Kh. M. Akhmetshin, 46 pp.

~~RUSSIAN, bk, Okhrana Gosudarstvennoy Tayny -~~  
Dolg Sovetskikh Grazhdan, Moscow, 1954.

CIA/FDD Tr 384

USSR

Pol - State security

CTB 66/Mar 55

23,039

Catalytic Acylation of Cyclohexanol, by N. Kozlov, <sup>41</sup>  
L. Akhmetshina.  
RUSSIAN, ser, Dok Ak Nauk SSSR, Vol 85, No 1, 1962,  
pp 91-93.  
ATS RJ-5069

L. AKHMETSHINA

Sci-Chem  
July 69

325,478

Catalytic Amination of Organic Compounds. II.  
Catalytic Amination of Phenols, by N. S. Kozlov,  
L. P. Akhmetshina, 4 pp.

RUSSIAN, no per, Zhur Obshch Khim, Vol XXV, No 3,  
USSR, Mar 1955, pp 485-488. CIA C 39388

Consultants Bureau

Scientific - Chemistry  
CTS 74/Nov 55

27, 767

Catalytic Amination of Organic Compounds, III.  
The Catalytic Amination of Ethers and Esters  
of Phenol by N. S. Kozlov and L. F. Akhmetshina,  
4 pp.

Full tr

RUSSIAN, no per, Zhur Obshch Khim, Vol XXVI, No 3,  
1956, p 709-711.

Consultants Bureau

Sci - Chemistry  
Jan 57 OES

42,500

34

Employment of the Photoelastic Coatings  
Method to Determine Stresses and Deforma-  
tions in Flexible Plates and Shells,  
by M. Kh. Akhmetzyanov, 7 pp.  
RUSSIAN, per, Izvestiya Akad Nauk SSSR,  
Mekhanika i Mashinostroyeniye, No 1,  
1964, pp 199-201.  
PTD-TT-64-1088

*M. Kh. Akhmetzyanov*

Sci-~~Page~~  
July 65

284,561

Influence of the Chemical Composition of Hydrolytic  
Lignin on the Physical and Mechanical Properties  
and Structure of Granulated Carbons by S. I.  
Sukhanovskii and E. I. Akhmina, 6 pp.

RUSSIAN, per, Zhur Prikl Khim, Vol XXXV, No 12,  
1962, pp 2754-2759.

CP

Sci  
Nov 63

243, 294

The Effect of Hypophysectomy on the Reactions of  
Animals to Diphtheria Toxin, by V. D. Akhnazarova,  
5 pp.

RUSSIAN, per, Byal Eksp<sup>er</sup> Biol i Medit, Vol LII,  
No 9, 1961, pp 32-36.

CB

Sci

202,768

The Role of the Hypophysis in the Mechanism of  
Development of Structural Tissue Lesions in  
Diphtheric Intoxication, by V. D. Akhazarova,  
4 pp.

RUSSIAN, per, Zhur Mikrobiol Epidemiol i  
Imunobiol, Vol XXX, No 1, 1959, pp 102-105

Fergason Press

Sci

101, 775

Doc 59

Congress Speech, by Akhoundov.

RUSSIAN, np, Pravda, 21 Oct 1961.

FBIS Wire

USSR

Pol

3 Nov 61

(DC-1352).

The State System of Afghanistan, by I. Aleksandrov,  
R. Akhramovich, 4 pp. UNCL

RUSSIAN, monograph, Gosudarstvennyy Stroy  
Afghanistan, Moscow, 1956, pp 1-64.

JPRS/DC-L-909

HR/A Economics Afghanistan  
Pol, Econ  
Apr 59

84,855-

Determination of Thermodynamic Properties of  
Solutions of Mineral Salts During Evaporation  
and Crystallization, by G. I. Voinilovich,  
L. K. Akhrap, L. S. Mai.

RUSSIAN, no per, Zhur Prik Khim, Vol VIII, No 4,  
1935, pp 589-597.

INSDOC T. 760

29,467

Scientific - Chemistry  
Indian Natl Sci Doc Center, Natl Physical Lab  
of India, Hillside Rd, New Delhi, 12.

Closure of the Channel of the Angara River  
in the Area of the Bratsk Hydroelectric Plant,  
by S. K. ~~AKHRA~~ Akhrap, Yu. A. Fishman.

RUSSIAN, per, Gid Stroitel, No 11, 1959, pp 11-16.

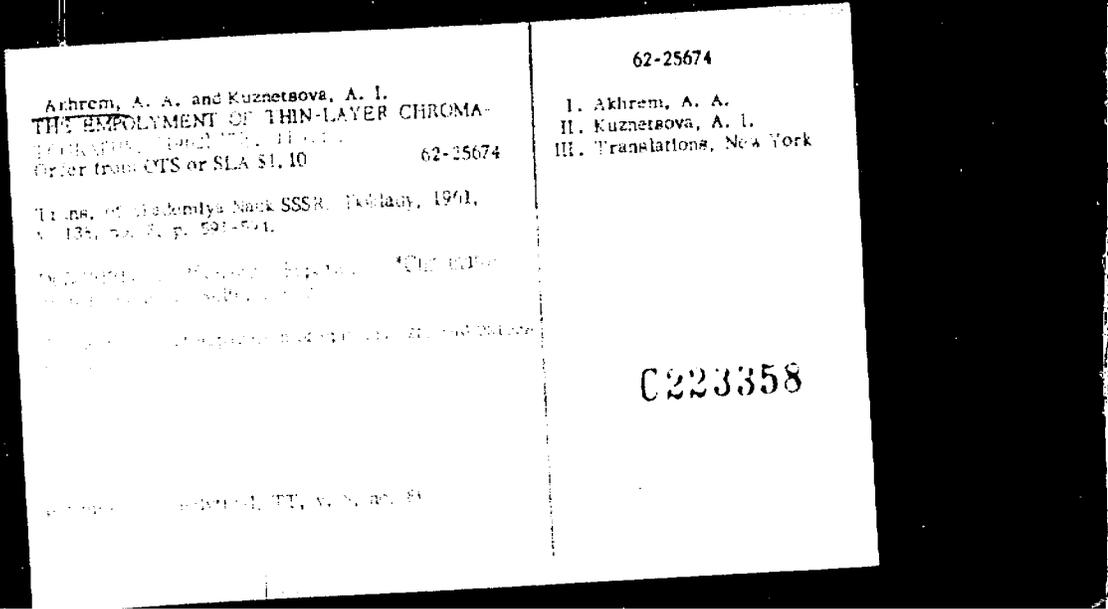
Dept of Interior  
US Bur of Reclamation  
Tech Lib, Denver, Col

TC 733 AS 01 21

SLA 60-23539

USSR  
Geog  
Sci - Geoph  
Nov 60

131,246



Effect of  $\alpha$ -Hydroxy and  $\alpha$ -Acetoxy Groups on the  
Character of the Reaction of Hypobromous Acid With  
Carbon -- Carbon Multiple Bonds. Communication 1.  
Cases of an Anomalous Course in the Favorskiy  
Reaction, by A. A. Akhrem, 8 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Khim Nauk,  
No 4, 1960, pp 693-702.

CB

Sci

May 62

194,453

Thin Layer Chromatography, by A. A. Akhrem, A. I.  
Kuznetsova.

RUSSIAN, bk,.

\*CB

Sci-Earth Sci & Astron  
Jan 64

Raman-Spectrum Investigation of Some Acetylenic  
Alcohols and Their Acetic Esters, by M. I. Retnev,  
A. A. Akhrom, 5 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Khim Nauk,  
No 12, 1960, pp 2201-2207.

CB

Sci

May 62

194,504

Stereochemistry of Nucleophilic Addition Reactions to  
the Carbonyl Group of Cyclic Esters, by A. V.  
Kuznetsov, A. A. Akhmed, 15 pp.

RUSSIAN, per, Uspekhi Khim, No 2, 1961, pp 142-163.

Cleaver-Buss Press

Sci  
May 62

194,719

Heterocyclic Analogs of Corticosteroids. Communication  
1. Syntheses Based on Octahydro-1,2-dimethyl-4(1H)-  
quinolone, by A. A. Akhrem, L. I. Ukhova, 5 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Khim Nauk,  
No 2, 1962, pp 304-309.

Consultants Bureau

Sci  
Dec 62

218,185

Raman-Spectrum Investigation of the Conformations of  
Cis and Trans Methyl 1-Hydroxy-3-Methylcyclohexane-  
carboxylates, by M. I. Batuyev, A. A. Akhram, A. V.  
Kamernitskiy, 4 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Khim Nauk, No 3,  
1959, pp 556-558.

CB

Sci -  
May 61

153, 240

Stereochemistry of Reactions of Nucleophilic Addition  
at the Carbonyl Group of 3-Methylcyclohexanone, by  
A. A. Akhrem, A. V. Kamernitskiy, 3 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Khim Nauk, No 4,  
1959, pp 748, 749.

CB

Sci -  
May 61.

152, 753

Oxidation of 2-Methyl-1-(1'-Acetoxyethylidene)-  
Cyclohexane With Cerium Tetroxide and Peracetic Acid,  
by A. A. Akhrem, 3 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Khim Nauk, No 4,  
1959, pp 750-752.

CB

Sci -  
May 61

152, 754

Effect of the Medium on the Stereochemistry of Nucleophilic Addition at the Carbonyl Group, by A. V. Smernitskiy, A. A. Aldaren, 3 pp.

USSIAN, per, Iz Ak Nauk BSSR, Otdel Khim Nauk, No 4, 1959, pp 740-741.

CB

25  
17 61

152,751

Simpler Analogs for Corticosteroids. I.  
Stereochemistry of Cyanohydrin and Acetylenic  
Synthesis. Configuration of 1-Cyano- and 1-  
Ethyne-2-methylcyclo-hexanois, by I. N. Nazarov,  
A. V. Kamernitskiy, A. A. Akhrem, 9 pp.

RUSSIAN, per, Zhur Obshchei Khim, Vol XXVIII,  
No 6, 1958, pp 1458-1468.

Consultants Bureau

Sci - Chem  
Sep 59

95,759

The Simplest Analogs of Corticosteroids. II. In-  
~~duction~~ duction of Dihydroxycarboxylic, Glyceryl and  
Hydroxylacetone Side Chains Into  $\alpha$ -Methylcyclohexanone  
and the Stereochemistry of the Compounds Formed  
Thereby, by I. N. Bazarov, A. A. Akhrem, A. V.  
Kamernitskiy, <sup>19</sup>A pp.

RUSSIAN, per, Zhur Obshch Khim, Vol XXVIII, No 7,  
1958, pp 1791-1804.

Consultants Bur

Sci - Chem  
Sep 59

96,857

A Study in the Field of Stereochemistry of Cyclic  
Compounds. XXVIII Steric Directivity of the Serini  
Reaction in the Cyclohexane Series, by I. N.  
Nazarov, A. A. Akhrem, A. V. Kamernitskiy, 6 pp.

RUSSIAN, per, Zhur Obshch Khim, Vol XXVIII, No 7,  
1958, pp 1805-1810.

Consultants Bur

Sci - Chem  
Sep 59

96,858

②  
Preparative Method of the Synthesis of Cyanohydrins,  
by I. N. Masarov, A. A. Akhrem, A. V. Kamernitsky,  
6 pp.

Full translation.

RUSSIAN, no per, Zhur Obshch Khim, Vol XXV, No 7,  
1955, pp 1345-1350.      CIA C 42051

Consultants Bureau

Scientific - Chemistry  
May 56 CTS/dax

34,250

The Introduction of Dihydroxycarboxylic, Glycerin,  
and Hydroxyacetone Side Chains into Orthomethy-  
l cyclohexanone and the Stereochemistry of the  
Resulting Compounds, by I. N. Nazarov, A. A. Akhrom,  
4 pp.

RUSSIAN, per, Dok Ak Nauk SSSR, Vol CXX, No 5, 1958,  
pp 1045-.

Consultants Bureau

Sci - Chem

Jun 59

88,753

Investigation of the Condensation of Cis- and Trans-2-Decyl-2-Norbornene-5-Carboxamide, M. I. Dabuyev, A. A. Akhram, A. D. Muzayev, I. N. Nosarov, <sup>3</sup> 196

RUSSIAN, 1961, Iz Ak. Nauk SSSR, Otdel Khim. Nauk, No 23, 1961, pp 1389-1392.

Consultants Bureau

Sol

112, 196

Apr 68

Introduction of Hydroxyacetone, Glycerol, and  
Dihydroxy-Carboxylic Side Chains into cis-  
and trans-Decahydronaphthalene Derivatives,  
by T. N. Nazarov, G. V. Aleksandrova,  
A. A. Akhrem, 3 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Khim Nauk,  
No 5, 1958, pp 634-636.

Consultants Bureau

Sci - Chem

Apr 60

112, 277

Optical Investigation of the Conformations of Acetylene  
cyclohexene and Its Oxide, by M. I. Batuev, A. A.  
Akhren, A. D. Matveyeva, 4 pp.

RUSSIAN, per, Dok Ak Nauk SSSR, Vol CXXIX, No 5,  
1959, pp 1038-1041.

CB

Sci.  
Oct 60

129,968

Synthesis and Stereochemistry of Corticosteroid  
Analog. Communication 10. Synthesis and  
Conversions of 3-Keto-7-Methoxy-1,2,3,9,10,10a-  
Hexahydrophenanthrene, by A. A. Akhrem, I. G.  
Zavel'skaya, 6 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Khim Nauk, No 9,  
1960, pp 1637-1643.

CB

172, 207

Sci

Oct 61

Ⓐ    Ⓢ  
a Keto Epoxides, Communication 8, Reactions  
of 2,4,5.-Diepoxy-5-Methyl-3-Hexanone, by  
I. N. Bazarov, A. A. Akhrem, V. V. Kokhon-  
skaya, 10 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Khim Nauk,  
No 1, 1957, pp 80-90.

Consultants Bureau

Sci - Chem

May 59

86,920

(SF-1879)

Concerning the Application of the Idea of A. Ye. Favorakiy and the Reactions Discovered by Him to the Chemistry of Steroid Compounds, by A. A. Akhrem, 21 pp.

RUSSIAN, bk, Voprosy Teorii Stroeniya Organicheskikh Soedineniy, 1960, pp 224-240.

JPRS 11959

Sci - Chem

182,590

Feb 62

Derivatives of Acetylene. 132.  $\alpha$ -Ketonic Ethers and Their Transformations. III. The Monoether of  $\beta,\beta$ -Dimethyl Divinyl Ketone. Oxidation of Vinyl Isobutyl Ketone and Ethyl Isobutenyl Ketone with Alkaline Hydrogen Peroxide, by I.N. Nazarov and A.A. Akhrem, 5 pp.

Full Translation.

RUSSIAN, no per, Zhur. Obshch Khim, Vol XXII, No 3, USSR, Mar 1952, pp 442-449.

Consultants Bureau

Scientific - Chemistry

7512

Dec 53 CTS

Transformed Steroids. I. New Reaction of 5 $\alpha$ -Hydroxy-  
6 $\beta$ -Acetoxy Derivatives of Androstane, by A. A. Akhrem,  
I. G. Zavel'skaya, 7 pp.

RUSSIAN, per, Zhur Obshch Khim, Vol XXXII, No 1,  
1962, pp 50-57.

CB

Sci

Oct 62

216,143

*α*-Keto Esters. VI. Guides of *β*-Allylmalonates  
and Some Other *α,β*-Unsaturated Ketones, by I. G.  
Mikhchenko, A. A. Akhman, I. E. Maslov, 10 pp

RUSSIAN, Jour. Khim. Oganich. Khim., Vol. 21, No. 2  
1959, pp 809-819

Comptrolis Bureau

Sci

Apr 60

115,236

Optical Investigation of Transformations of  
Cis- and Trans-2-Methyl-1-Ethylcyclohexanols,  
by M. I. Batuyev, A. A. Akhrem, A. D. Mat-  
veyeva, I. N. Nazarov, 6 pp.

RUSSIAN, per, Dok Ak Nauk SSSR, Vol CXVII,  
No 3, 1957, pp 423-426.

Consultants Bureau

Sci - Chem  
Oct 58

74, 401

The Simplest Analogs of Corticosteroids. IX.  
Stereochemistry of Nucleophilic Addition to the Carbonyl  
Group. 6. The Steric Directivity of the Cyanohydrin  
and Organometallic Syntheses on the Basis of  
3-Methylcyclohexanone, by A. V. Kamernitskiy, A. A.  
Akhrem, 9 pp.

RUSSIAN, per, Zhur Obshch Khim, Vol XXX, No 3, 1960,  
pp 754-763.

CB

Sci  
Apr 61

147,554

Raman-Spectrum Investigation of the Equatorial and  
Axial Carbonyl Groups of Some Substituted Cyclo-  
hexanes, by M. I. Entuyev, A. A. Akhrem, A. D.  
Matveyeva, 4 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Khim Nauk, No 9,  
1959, pp 1665-1667.

CB

Sci -  
May 61

152,810

Raman-Spectrum Investigation of the Conformations of  
cis- and Trans-1,3-Dimethylcyclohexanols, by M. I.  
Batuyov, A. A. Akhrom, A. V. Kamernitskiy, 3 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Khim Nauk, No 9,  
1959, pp 1668-1670.

CB

Sci -  
May 61

152, 811

Synthesis and Stereoisomerism of N-Oxides of  
the Decahydroquinoline Series, by A. A. Akhnen,  
I. I. Ushova, 5 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Khim Nauk,  
No 5, 1963, pp 838-843.

CB

Sci  
May 64

259,024

Acetylene Derivatives. 167.  $\alpha$ -Keto Oxides and their Transformations. IV. The Oxides of 2-Methyl-1, 4-hexadien-3-one, 5-Methoxy-2-methyl-1-hexen-3-one and 1-Methoxy-2-methyl-4-hexen-3-one, by I. N. Nazarov, A. A. Akhrem, I. G. Tishchenko, 14 pp.

RUSSIAN, no per, Zhur Obshch Khim SSSR, Vol XXV, No 4, Apr 1955, pp 708-724. CIA C 39500

Consultants Bureau

Scientific - Chemistry  
Nov 55 CTS/DEX

28,584

The Simplest Analogs of Corticosteroids. III.  
The Introduction of Dihydroxyacetone, Glycerol  
and Dihydroxypropanecarboxylic Acid Side Chains  
Into Derivatives of Cis- and Trans-Decalins, by  
I. N. NAZAROV, G. V. Aleksandrova, A. A. Akhrem,  
10 pp.

RUSSIAN, per, Zhur Obshch Khim, Vol XXVIII, No 8,  
1958, pp 2187-2198.

CB

Sci - Chem  
Oct. 59

99943

Raman-Spectrum Investigation of Some Substituted  
Cyclohexanols and Their Acetic Esters, by M. I.  
Batusov, A. A. Akhrom, pp 13

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Khim Nauk,  
No 3, 1960, pp 28

CB

Sci  
May 62

195,345